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Save On Supply 1/4

LONGVIEW FIBRE COMPANY
SEATTLE BOX PLANT
CONSTRUCTION SPECIFICATIONS
FOR
OFFICE ADDITION 1983

JUNE, 1983

PEARSON, PAPE, ALLEN & HUGGINS, INC.

CONSULTING ENGINEERS

221 FIRST AVENUE WEST, SUITE 200
SEATTLE, WASHINGTON 98119

PROJECT 83/12

USEPA SF



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LFC001051

LONGVIEW FIBRE COMPANY
SEATTLE BOX PLANT
CONSTRUCTION SPECIFICATIONS
FOR
OFFICE ADDITION 1983

1.0 SCOPE

- 1.1 This contract includes site preparation and the complete construction required by the Contract Documents and the drawings listed in Section 1.2, and includes all labor necessary to produce such construction and all materials and equipment incorporated or to be incorporated in the construction.
- 1.2 Schedule of Drawings:

2.0 METHOD OF PROCEDURE

- 2.1 The Contractor shall plan his work and develop a progress schedule which will permit him to complete the project on time. The completion date for all work covered by this Contract is set up in the Agreement.
- 2.2 The Contractor, at the earliest date possible, shall submit to the Owner the names of his Subcontractors, if any, and a list of dates by which each Subcontractor promises the completion of his part of the project.
- 2.3 The Contractor, at the earliest date possible, shall submit to the Owner a schedule of delivery dates promised by his suppliers or by suppliers to his Subcontractors.
- 2.4 The Contractor, at all times, shall keep the Owner advised of any changes in delivery dates and/or completion dates on the part of his Subcontractors. It shall be the Contractor's responsibility to expedite all deliveries; the Owner reserves the right to talk to the Subcontractors directly in cases where his influence may be helpful in expediting deliveries.

- 10.2 If not otherwise provided, materials or work called for in this Contract shall be furnished and performed in accordance with well-known established practice and standards.
- 10.3 When required by the specifications, or when called for by the Owner's Representative, the Contractor shall furnish for approval full information concerning the materials or articles which he contemplates incorporating in the work. Samples of materials shall be submitted for approval when so directed. Machinery, equipment, materials and articles installed or used without such approval shall be at the risk of subsequent rejection.
- 10.4 Whenever any particular brand or make of material or apparatus is hereinafter called for, every bidder submitting an estimate upon this specification and the accompanying drawings obligates himself to the use of such brands and makes, or such other brands or makes as shall have been duly approved by the Owner's Representative in the manner described herein. Whenever any articles or any materials are specified by a reference to any manufacturer or dealer, or by specific reference to the catalogs of manufacturers or dealers, the intent is to establish a standard of excellence, which the Owner and his Representative have determined upon as requisite and necessary for this undertaking, and subject only therefore to such modifications as the Owner and his Representative may make in accordance with procedures specified.
- 10.5 Where the words "equal to", "as selected", "approved make" or other non-specific terms are used in reference to materials, quality, methods, or apparatus in lieu of, or in addition to, other specific references, it is to be distinctly understood that the approval of any such substitution is vested in the Owner's Representative whose decision shall be final and binding on all concerned.

11.0 CONSTRUCTION

11.1 EARTHWORK

- 11.1.1 All fill, foreign materials and existing paving or concrete shall be removed before the structural fill is placed. The fill material shall be granular, non-swelling material and shall be placed in 4 inch lifts if hand operated vibrator or tamper is used and in 8 inch lifts for heavy compactor.

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- 11.1.2 The fill and the top 6 inches of natural soil shall be moistened to optimum moisture content and shall be compacted to 95% of maximum density, according to ASTM D 1557. Optimum moisture content and maximum density shall be determined as per ASTM D 698. Field density tests shall be performed in accordance with ASTM D 1556.

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3.0 WORK BY OWNER OR OTHERS

- 3.1 The following items will be provided and installed by the Owner or others, and are not a part of this Contract. (Work on some of these items may be underway concurrently with the work of the Contractor. The Contractor shall give his full cooperation in such cases:)

3.1.1 All items noted "N.I.C." on drawings.

3.1.2 Fire Protection

*Electrical Power & Lighting
Panel*

CARPET INSTALLATION

FIRE PROTECTION

4.0 SUBCONTRACTING

- 4.1 By an appropriate agreement, the Contractor shall require each Subcontractor, to the extent of the Work to be performed by the Subcontractor, to be bound to the Contractor by the terms of the Contract Documents, and to assume toward the Contractor all the obligations and responsibilities which the Contractor, by these Documents, assumes toward the Owner.

5.0 CODES AND STANDARDS

- 5.1 The following codes and standards are included as a part of this specification where applicable:

5.1.1 City of Seattle Building Code, 1979 Edition.

5.1.2 State of Washington General Safety and Health Standards (Chapter 296-24 WAC), Latest Edition.

5.1.3 Uniform Building Code, 1979 Edition

6.0 SITE CONDITIONS & USE

- 6.1 Before submitting proposals, each bidder shall visit the work site. He shall satisfy himself as to existing conditions, local facilities and governing factors under which he will be obliged to operate in performing his part of the work, or that in any manner affects the work under this Contract. No allowance shall be subsequently made in this connection, in behalf of the Contractor, for any error or negligence on his part. Arrangements with the Owner shall be made by each bidder prior to visiting the work site.
- 6.2 The Contractor shall verify dimensions, elevations and conditions at the site before starting work.
- 6.3 The Contractor shall confine operations at the site to areas permitted by law, ordinances, permits and the Contract Documents and shall not unreasonably encumber the site with any materials or equipment.

7.0 PUBLIC UTILITIES

- 7.1 The Contractor shall send proper notices, make all necessary arrangements and perform all other services required for the protection and maintenance of all public utilities; such as fire plugs, electric cables, gas pipes, water pipes, sewer pipes and all other items of this nature, assuming all responsibility and paying all cost for which the Owner may be liable.
- 7.2 The Contractor shall consult public and service company records to fully inform himself of the location and extent of all utilities serving the property.

8.0 SERVICES FOR CONSTRUCTION

IF Required!

- 8.1 All electrical and potable water requirements will be provided by the Owner.
- 8.2 The Contractor, at his expense, shall provide and maintain any temporary office facilities required for his own use.
- 8.2.1 Telephone services, ^{if} required, shall be provided and paid for by the Contractor.
- 8.2.2 Toilet facilities shall be provided by the Owner.
- 8.3 The Contractor shall supply and install temporary heating and lighting equipment as required. Power will be supplied by the Owner at no cost to the Contractor.

IF Required (Optional)

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9.0 INSPECTION

- 9.1 All work shall be subject to inspection by a representative of the Owner. The Contractor shall give the inspector his full cooperation.
- 9.2 Material and/or workmanship deemed faulty by the Owner's Representative shall be rejected and replaced with material and/or workmanship satisfactory to the Owner at no additional cost to the Owner.
- 9.3 The cost for all inspection shall be paid by the Owner.
- 9.4 It shall be the Contractor's responsibility to see to it that all work which needs to be inspected by laws, ordinances or public authority, is inspected before it is covered up.

10.0 MATERIALS & WORKMANSHIP

- 10.1 Unless otherwise stipulated in the specifications, all equipment, materials and articles incorporated in the work covered by this Contract are to be new.

14.0 CLEAN UP

- 14.1 The Contractor shall have the responsibility of cleaning up to the satisfaction of the Owner's Representative after the job is completed.

The Contractor shall be responsible for clean up by Subcontractor.

15.0 TIME OF COMPLETION

- 15.1 Time of completion shall be agreed upon prior to the award of the Contract. Completion date and construction schedule shall be made a part of the Contract Agreement.

The owner reserves the right to take possession of any completed or partly completed portions of the structure. Such possession and use shall not constitute acceptance of the work.

16.0 INSURANCE

- 16.1 The Contractor shall provide public liability and property damage insurance, insuring himself and holding the Owner harmless against liability for damage to persons or property arising in any way from his performance of this contract in a company or companies satisfactory to the Owner and in the amounts of \$500,000/\$1,000,000 for public liability and \$100,000/\$100,000 for property damage. The policy or policies procured shall contain a rider, a copy of which shall be furnished to the Owner, to the effect that cancellation or alteration cannot be made without ten (10) days' prior written notice to the Owner by the insurance company. The Owner shall be furnished with a copy of the policy or policies, or a Certificate of Coverage issued by the insurance company or companies, which certificate shall show the aforesaid restriction or cancellation.

The Contractor shall provide the following information:

Underwriter _____ Police No. _____

Agent _____ Expires _____

Contractor's Liability Insurance

- a. The Contractor shall also maintain insurance required under any other employee Benefits Act in force at the place of building. The Contractor will provide the Owner with the firm's State Employee Compensation number before construction begins.
- b. Property Damage Liability, including claims due to automobiles, shall be insured with Bodily Injury Liability.
- c. All liability insurance required herein shall be by Comprehensive General and Automobile Bodily Injury and Property Damage policy or policies.

11.1.3 A soil compaction report shall be submitted by Seattle Building Department prior to placing concrete.

11.1.4 The Contractor shall provide shoring if required to prevent damage or caving of soil under the existing foundations when excavating or compacting.

11.2 CONCRETE

11.2.1 Concrete work shall conform to all requirements of the American Concrete Institute Standard Specifications for Structural Concrete for Buildings (ACI 301-72, Revised 1979), except as modified by the Supplemental Requirements below:

- a. Concrete shall have a compressive strength of 3500 psi at 28 days.
- b. Cement shall be Portland Cement, Type II, conforming to ASTM C 150.
- c. Minimum cement content shall be 6 sacks per cubic yard.
- d. Maximum slump shall be 3 inches.
- e. Concrete shall be consolidated by vibration.
- f. The slab shall have a troweled finish with a tolerance of within 1/8 inch in ten feet (Class A).
- g. Any admixture, if used, shall be approved by the Engineer.
- h. Reinforcing steel shall comply with ASTM A 615, Grade 60.
- i. Bending and placing reinforcing shall be in accordance with ACI 301 and ACI 315, Latest Editions.

11.3 STRUCTURAL STEEL

11.3.1 Structural steel shall comply with ASTM A 36 and shall be fabricated and erected in accordance with AISC "Specifications for the Design, Fabrication and Erection of Structural Steel for Buildings", effective November 1, 1978.

11.3.2 Welding shall be electric arc welding using American Welding Society Specifications.

11.3.3 All structural steel shall have one shop coat of zinc chromate primer.

11.3.4 Bolts, unless noted on drawings, shall be ASTM A 307 with lock washers.

11.4 WOOD CONSTRUCTION, CARPENTRY

- 11.4.1 Material, fabrication and installation of wood members shall be in accordance with the applicable requirements of the Standard Specifications of the American Institute of Timber Construction (AITC), Latest Editions.

11.5 DOORS, WINDOWS & HARDWARE

- 11.5.1 Brochures or working drawings shall be provided by the Contractor for approval by the Owner's Representative.

11.6 BUILT-UP ROOFING

11.6.1 General

- a. Contractor shall give the Owner's Representative notice of intent to start roofing work at least 24 hours in advance. The Owner's Representative will then make an inspection of the surfaces over which this work will be laid, and of adjoining work. Any conditions that are found not to be in strict accordance with the requirements of the drawings and specifications shall be promptly corrected by the Contractor. Work shall not start without the approval of the Owner's Representative.
- b. Visual inspection of the Built-Up Roofing System may be performed by the Owner's Representative during any state of construction.
- c. The Contractor shall guarantee the roofing work under this Contract. The guarantee shall be against any leaks or defects, of any kind, due to faulty materials or workmanship and shall provide for the repairs, at no cost to the Owner, of said leaks or defects or damage caused thereby. The guarantee shall be for a period of two years from the date of final acceptance of the job by the Owner's Representative and shall be issued to the Owner in writing, before final payment, and signed by the General Contractor and the roofing Subcontractor.
- d. References from Johns-Manville "Specification Manual for Build-Up Roof Systems" (Specifications No. 4 ANS With A Fibrated Aluminum Roof Coating) are used to establish the standard of quality required for material and installation procedure.
- e. The Contractor shall furnish the Owner's Representative with literature as it may be required to establish the quality and quantity of materials and the installation procedure that he proposes to use.

11.6.2 Materials

- a. Materials not specified by the drawings shall be as recommended by Johns-Manville Spec. No. 4 ANS, or of the same type and quality produced by other manufacturers, subject to approval by the Owner's Representative.
- b. Materials shall be delivered in original packages with manufacturer's labels. Bitumen labels must show composition and melting points. If asphalt is delivered in bulk shipment, certification shall be required. Proof of proper material delivery shall be provided prior to installation of the same.
- c. Materials shall be stored following manufacturer's recommendations and shall be protected at all times.

11.6.3 Installation

- a. Installation shall be made in strict accordance with the manufacturer's recommendations.
- b. One ply of sheathing paper must be used under the base felt next to the deck.
- c. Asphalt shall not be heated over 425° F and shall be applied at no less than 275° F and no more than 350° F. Heating kettles shall be provided with thermometers and thermostat control to provide continuous check on temperature of materials. The proper grade of hot asphalt shall be uniformly applied at a rate of 23 lbs. per square foot.
- d. All nails or other fasteners shall be driven through tin caps or shall have integral flat caps no less than 1" across.
- e. Application of finishing felt shall be done in such a manner that at least 3 plies of felt cover the base felt at any point. Each felt shall be firmly and uniformly set without voids into the hot asphalt. All laps are to be made on downhill slope of roof so water will not run down against the laps.
- f. Building and all adjacent structures shall be protected from the dropping of roofing materials. At the conclusion of the job, the area shall be cleaned to the satisfaction of the Owner's Representative.
- g. During the roofing operation, heavy material storage and handling of loads must be done with necessary precautions to protect the roof. Any damage to the roof structure from overloading will be repaired at the Contractor's cost.

11.7 FLASHING & CAULKING

11.7.1 Flashing

- a. Metal flashing shall be installed as shown on the drawings, and made watertight with adequate provisions for expansion and contraction.
- b. Where edges are exposed, the metal shall be doubled back 1/2" to conceal and stiffen raw edges.
- c. Metal flashing shall be fabricated from 24 gauge Type 304 stainless steel, conforming to ASTM A 527.
- d. Where fasteners are indicated for attachment of flashing, stainless steel devices with weather seal washers shall be used.
- e. Installation of metal flashing shall be coordinated with roofing work as required.
- f. Materials and methods for flashing not specifically detailed on the drawings shall be of the type and quality required by Johns-Manville Specification Nos. FE-4, and FE-1 (LB).

11.7.2 Caulking

- a. Caulking compound shall be a silicone sealant of a type approved by the Owner's Representative.
- b. Application of caulking compound shall be in accordance with manufacturer's recommendations. Joints and voids shall be filled solid, except as noted on the drawings. Excess materials shall be removed and surfaces shall be left smooth and clean.

11.8 FIRE PROTECTION

11.8.1 Automatic Sprinkler System

- a. A wet-pipe type Sprinkler System shall be furnished and installed to provide protection for the new office addition.
- b. The Sprinkler System shall be connected to central station service.
- c. The Fire Protection System suggested piping arrangement is shown per drawing and shall conform to the requirements of:
 - (1) N.F.P.A., Standard No. 13
 - (2) Article 81 of the Seattle Fire Code

- d. The entire system shall be furnished and installed by a reliable Subcontractor specializing in this type of work and shall be approved by the Owner. The Contractor shall secure pertinent information as may be required by the Owner's Representative for the approval of the Fire System Subcontractor.
- e. Prior to fabrication and installation the Contractor shall submit shop drawings to the Owner's Representative for approval in accordance with these Specifications. All drawings submitted for this purpose shall be approved by the City of Seattle Fire Department and Factory Mutual Engineering. The Contractor may, however, submit preliminary, unapproved drawings for checking building and equipment interferences, etc. The Contractor shall not alter, change or omit any specification requirement nor shall he introduce any changes to the system or equipment layout after the drawings have been approved, unless written authorization from the Owner's Representative has been obtained. If any such changes are made, or changes are required by the Owner's Representative, the Contractor shall revise the shop drawings and resubmit them to all parties for approval.
- f. Upon completion of the job, the Contractor shall provide the Owner with detailed operating and maintenance information covering all the equipment installed. The Contractor shall also provide, at this time, three sets of drawings with local Fire and Building Department approval, showing the actual way the lines and equipment were installed and which may be at variance with the original Contract Drawings.

14.0 ELECTRICAL

- 14.0.1 The Electrical Contractor shall furnish, install and connect the lighting panel, lights, receptacles, switches, conduit and wire as shown on the electrical drawings and described in these specifications.
- 14.0.2 Longview Fibre Company will furnish, install and connect the feeders to the lighting panel and the HVAC system.
- 14.0.3 The HVAC Contractor shall furnish, install and connect the HVAC system, including the thermostat and any other control associated with the HVAC system.
- * 14.0.4 Lighting Panel Specification now on Drawing E-1.
- 14.0.5 The Contractor shall use EMT and flex conduit and fittings which are U.L. listed as suitable for use as grounding conductor.
- 14.0.6 The Electrical Contractor shall use copper wire with THW insulation. Minimum wire size to be No. 12 AWG.
- * 14.0.7 Light Fixture Specification now on Drawing E-1.

*Moved panelboard and Light Fixture Specifications to Drawing E-1.6/27/83.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10
1200 SIXTH AVENUE
SEATTLE, WA 98101

TARGET SHEET

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